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|--|-----------------------------|--|-----------------------------|----|------------|----------------------------|----|------------|------------------------|----|------------|------------------------|----|---|--------|--|---------|--------|--|---------|--------|--|---------|--|--|---------|
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| (21) International Application Number: PCT/EP99/06377 (22) International Filing Date: 30 August 1999 (30.08.99) (30) Priority Data: <table style="width: 100%; border: none;"><tr><td style="width: 33%;">98250315.3</td><td style="width: 33%;">7 September 1998 (07.09.98)</td><td style="width: 33%;">EP</td></tr><tr><td>98250387.2</td><td>4 November 1998 (04.11.98)</td><td>EP</td></tr><tr><td>99250179.1</td><td>8 June 1999 (08.06.99)</td><td>EP</td></tr><tr><td>99250214.6</td><td>1 July 1999 (01.07.99)</td><td>EP</td></tr></table> (71) Applicant (for all designated States except US): DEUTSCHE THOMSON-BRANDT GMBH [DE/DE]; Hermann-Schwer-Strasse 3, D-78048 Villingen-Schwenningen (DE). (72) Inventors; and (75) Inventors/Applicants (for US only): SCHILLER, Harald [DE/DE]; Apfelgarten 11, D-30539 Hannover (DE). KEESSEN, Heinz-Werner [DE/DE]; Siemensstrasse 22, D-30173 Hannover (DE). WINTER, Marco [DE/DE]; Böhmerstrasse 17, D-30173 Hannover (DE). (74) Agent: HARTNACK, Wolfgang; Deutsche Thomson-Brandt GmbH, Licensing & Intellectual Property, Karl-Wiechert-Allee 74, D-30625 Hannover (DE). | | 98250315.3 | 7 September 1998 (07.09.98) | EP | 98250387.2 | 4 November 1998 (04.11.98) | EP | 99250179.1 | 8 June 1999 (08.06.99) | EP | 99250214.6 | 1 July 1999 (01.07.99) | EP | (81) Designated States: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> | | | | | | | | | | | | |
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| (54) Title: <u>METHOD FOR ADDRESSING A BITSTREAM RECORDING</u> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (57) Abstract <p>In bitstream recording presentation data is organised into Video Object Units. These have a variable size but have also a variable duration. To allow access to any Video Object Unit in the bitstream a mapping list is used which is based on pieces (SOBU#n) of the bitstream of constant size per piece. The mapping list additionally contains for each of these pieces a specific delta duration (IAPAT#n) which indicates the difference between the arrival time of the first packet of a piece and the arrival time of the packet following immediately the last packet of that piece, and contains an initialisation value (IAPAT#0) which allows to have a share of equal bits between a predetermined amount of MSBs of application time stamps (ATS) and the same amount of LSBs of the summation of said delta time durations (IAPAT#n).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; align-items: center; justify-content: center;"><div style="margin-right: 10px;">DAV →</div><table border="1" style="border-collapse: collapse;"><tr><td style="padding: 5px;">SOBU#n</td><td style="width: 20px;"></td><td></td></tr><tr><td style="padding: 5px;">SOBU#n-1</td><td></td><td style="padding: 5px;">IAPAT#n-1</td></tr><tr><td style="padding: 5px;">SOBU#i</td><td></td><td style="padding: 5px;">IAPAT#i</td></tr><tr><td style="padding: 5px;"></td><td></td><td></td></tr><tr><td style="padding: 5px;">SOBU#3</td><td></td><td style="padding: 5px;">IAPAT#3</td></tr><tr><td style="padding: 5px;">SOBU#2</td><td></td><td style="padding: 5px;">IAPAT#2</td></tr><tr><td style="padding: 5px;">SOBU#1</td><td></td><td style="padding: 5px;">IAPAT#1</td></tr><tr><td></td><td></td><td style="padding: 5px;">IAPAT#0</td></tr></table></div> | | | SOBU#n | | | SOBU#n-1 | | IAPAT#n-1 | SOBU#i | | IAPAT#i | | | | SOBU#3 | | IAPAT#3 | SOBU#2 | | IAPAT#2 | SOBU#1 | | IAPAT#1 | | | IAPAT#0 |
| SOBU#n | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOBU#n-1 | | IAPAT#n-1 | | | | | | | | | | | | | | | | | | | | | | | | |
| SOBU#i | | IAPAT#i | | | | | | | | | | | | | | | | | | | | | | | | |
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| SOBU#3 | | IAPAT#3 | | | | | | | | | | | | | | | | | | | | | | | | |
| SOBU#2 | | IAPAT#2 | | | | | | | | | | | | | | | | | | | | | | | | |
| SOBU#1 | | IAPAT#1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | IAPAT#0 | | | | | | | | | | | | | | | | | | | | | | | | |